

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P35080

Luminaire Tested: **24EN-LD2-74HP-UNV-L835-CD1-SVPD1-U**

Test Date: 10/09/16

**Test Information**

Test Method: LM-79-08  
Report Number: P35080  
Test Lab: INNOVATION CENTER-P3  
Test Date: 10/09/16  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24EN-LD2-74HP-UNV-L835-CD1-SVPD1-U  
Description: ENCOUNTER 2X4 LED TROFFER WITH SENSOR  
Light Source: (392) EATON 3500K LEDS  
EL232N098E835  
Ballast/Driver: (1) PHILIPS ELECTRONIC DRIVER w/ 5.01K RES  
XI054C150V054DNT1

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7319.5 lumens  
Efficiency: N/A  
Efficacy: 128.4 lumens/watt  
Spacing Criteria (0/90/45): 1.39 / 1.39 / 1.41  
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')  
CIE Type: Direct

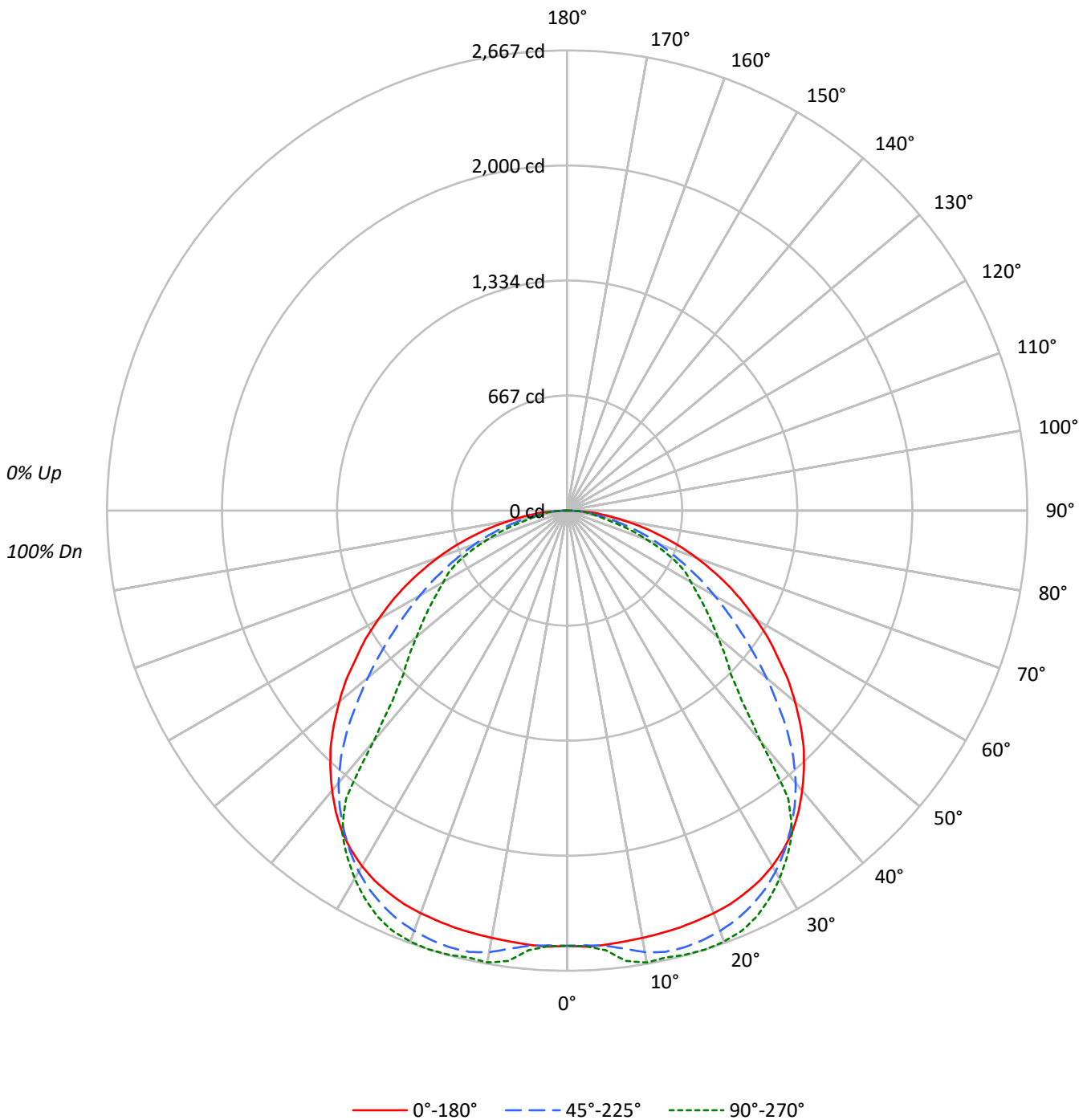
Input Watts (W): 57  
Input Voltage (V): 120.0  
Input Current (Ain): 0.470  
Voltage Rise (V): NR  
Power Factor: 0.9982  
Total Harmonic Distortion (THDi): 11.7%  
Frequency (hertz): 60  
Stabilization Time: 0.5 HR  
Operation Time: 5 HR  
Ambient Temperature (°C): 24.5  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3863	3863	3863
5°	3884	3891	3931
10°	3911	4042	4135
15°	3969	4156	4224
20°	4047	4225	4332
25°	4132	4271	4391
30°	4207	4273	4354
35°	4252	4220	4254
40°	4237	4121	3479
45°	4198	3908	2909
50°	4108	3591	2714
55°	3987	3290	2596
60°	3872	3020	2536
65°	3744	2762	2512
70°	3565	2544	2190
75°	3326	2243	1781
80°	2972	1826	1561
85°	2829	1810	1792



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	244.1	3.3
10°-20°	735.0	10.0
20°-30°	1162.2	15.9
30°-40°	1403.6	19.2
40°-50°	1324.6	18.1
50°-60°	1098.3	15.0
60°-70°	799.9	10.9
70°-80°	428.8	5.9
80°-90°	123.0	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2141.3	29.3
0°-40°	3544.9	48.4
0°-60°	5967.8	81.5
0°-90°	7319.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7319.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2522	2522	2522	2522	2522	
5°	2526	2523	2531	2541	2557	241
15°	2503	2544	2621	2643	2664	709
25°	2445	2478	2527	2575	2598	1128
35°	2274	2246	2257	2268	2275	1419
45°	1938	1867	1804	1534	1343	1491
55°	1493	1410	1232	1021	972	1339
65°	1033	928	762	683	693	1021
75°	562	478	379	316	301	595
85°	161	112	103	101	102	172
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2522	2522	2522	2522	2522
2.5°	2530	2522	2522	2519	2527
5°	2526	2523	2531	2541	2557
7.5°	2520	2525	2561	2606	2633
10°	2515	2532	2599	2645	2659
12.5°	2509	2540	2620	2640	2653
15°	2503	2544	2621	2643	2664
17.5°	2494	2541	2611	2642	2667
20°	2483	2531	2592	2631	2658
22.5°	2469	2510	2566	2611	2638
25°	2445	2478	2527	2575	2598
27.5°	2418	2437	2478	2519	2537
30°	2379	2388	2416	2445	2462
32.5°	2331	2322	2342	2366	2374
35°	2274	2246	2257	2268	2275
37.5°	2202	2161	2165	2137	2105
40°	2119	2068	2061	1934	1740
42.5°	2032	1973	1940	1722	1499
45°	1938	1867	1804	1534	1343
47.5°	1832	1761	1652	1375	1241
50°	1724	1652	1507	1245	1139
52.5°	1615	1532	1367	1129	1054
55°	1493	1410	1232	1021	972
57.5°	1386	1291	1104	926	894
60°	1264	1166	986	842	828
62.5°	1150	1053	875	762	773
65°	1033	928	762	683	693
67.5°	913	814	660	599	595
70°	796	691	568	499	489
72.5°	680	581	477	410	401
75°	562	478	379	316	301
77.5°	448	376	291	229	219
80°	337	290	207	176	177
82.5°	241	195	146	138	139
85°	161	112	103	101	102
87.5°	63	57	56	54	56
90°	0	0	0	0	0

(END OF REPORT)